

Material Data Sheet | Comparison Sheet

Material	EPDM	Natural Rubber And Polyisoprene	Neoprene	Nitrile ("Buna-N")	SBR	Silicone
Common Names	EPR, EPT	Natural Rubber, Polyisoprene	Neoprene	Nitrile, BUNA-N, NBR	SBR, GRS	Silicone
Adhesion to Metals	Fair to Good	Fair to Good	Good to Excellent	Excellent	Excellent	Good
Military (MIL STD 417)	RS	None	SC	SB	RS	TA
Chemical Definition	Ethylene Propylene	Stereoregular polyisoprene only (polyisoprene)	Polychloprene	Butadiene Acrylonitrile	Styrene Butadiene	Polysiloxane
Tensile Range (P.S.I)	500 – 2500	400 – 4000	500 – 3000	200 – 3000	500 – 3000	200 – 1500
Oil Resistance	Poor	Fair	Fair	Good to Excellent	Poor	Fair to Poor
Durometer Range (Shore A)	45 – 90	45 – 90	45 – 95	45 – 95	50 – 80	45 – 90
Compression Set	Good	Good	Good	Good	Good	Good
High Temperature Usage (F°)	to 350°	158°	to 250°	to 250°	to 225°	to 450°
Abrasion Resistance	Good	Good to Excellent	Excellent	Excellent	Excellent	Fair to Poor
Tear Resistance	Fair	Good	Excellent	Good	Fair	Poor
Solvent Resistance	Poor	Poor	Good	Good to Excellent	Poor	Poor
Resilience – Rebound	Good	Good	Good	Good	Good	Good
Aging Weather – Sunlight	Excellent	Good	Good	Poor	Poor	Excellent
Elongation (max. %)	600	75 – 600	600	600	600	700
ASTM D-2000 Classification	CA	AA	BC, BE	BF, BG, BK	AA, BA	FC, FE, GE

